

STEREO MOC Status Report
Time Period: 2011:241 - 2011:247

STEREO Ahead (STA) Status:

1. The following Ground System anomalies occurred during this reporting period:
 - On day 241, during the DSS 63 support, turbo decoder lock was lost briefly beginning at 0750z and again at 0925z. This resulted in the loss of seven frames of SSR data. See DR# N107567 for more information.
 - On day 244, during the DSS 65 support, monitor data was lost briefly for three minutes beginning at 0431z. All SSR data was recovered. See DR# N107580 for more information.
 - On day 244, for the DSS 14 support, the transmitter was declared red prior to the track due to a power supply problem. The support remained downlink only for its entirety. This anomaly resulted in the loss of all commanding and two-way tracking data for the duration of the support. All SSR data was recovered. See DR# G111928 for more information.
2. The following spacecraft/instrument events occurred during this week:
 - The average daily SSR playback volume for Ahead was 5.3 Gbits during this week.

STEREO Behind (STB) Status:

1. The following Ground System anomalies occurred during this reporting period:
 - On day 241, during the DSS 43 support, the 720 kbps downlink rate was used for the duration of the support. The received signal power was satisfactory throughout the support. This was a test of a change to the STEREO data return CONOPs to implement a planned downlink rate step on selected tracks whose elevation is above 25 degrees for the duration of the track. This planned downlink rate step will help to maintain/increase the daily science data return with the ever

increasing S/C range, to take advantage of the increased RF margin at higher antenna elevations.

- On day 242, during the DSS 55 support, turbo decoder lock was lost briefly beginning at 1409z. This resulted in the loss of two frames of SSR data. See DR# N107569 for more information.
- On day 244, during the DSS 63 support, turbo decoder lock was lost briefly beginning at 1150z and again at 1344z. This resulted in the loss of 35 frames of SSR data. See DR# N107578 for more information.
- On day 245, during the DSS 34 support, turbo decoder lock was lost briefly beginning at 0801z. This resulted in the loss of two frames of SSR data. See DR# N107579 for more information.

2. The following spacecraft/instrument events occurred during this week:

- The average daily SSR playback volume for Behind was 5.3 Gbits during this week.